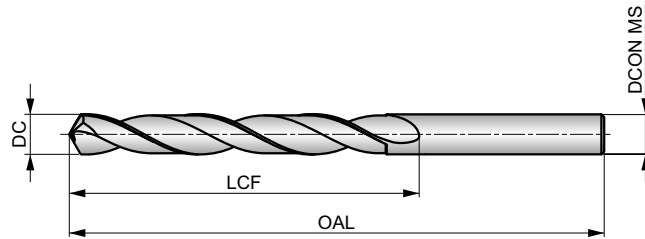


# R003



## Solid Carbide Jobber Drill, TiN tip Coated

Versatile entry-level drill with 120° point angle with four facet split point geometry for reduced thrust force and CTW flute construction for enhanced penetration rates. TiN tip coating improves performance and extends tool life. Suitable for both CNC machines and conventional machines across a wide range of workpiece materials.



HM	DIN 338	4×D
120°	TiN-Tip	
λ 20-35°	R	DC h7

Workpiece material group suitability, starting values for cutting speed (m/min) and feed Alpha Code. Tables with feed per revolution can be found starting from page 274.

<b>P1.1</b> ■ 99 S	<b>P1.2</b> ■ 111 S	<b>P1.3</b> ■ 115 S	<b>P2.1</b> ■ 85 S	<b>P2.2</b> ■ 75 S	<b>P2.3</b> ■ 66 S	<b>P3.1</b> ■ 66 S	<b>P3.2</b> ■ 53 S	<b>P3.3</b> ■ 45 S	<b>P4.1</b> ■ 40 S	<b>P4.2</b> ■ 34 S	<b>P4.3</b> ■ 27 S	<b>K1.1</b> ■ 75 T	<b>K1.2</b> ■ 56 T
<b>K1.3</b> ■ 42 T	<b>K2.1</b> ■ 68 T	<b>K2.2</b> ■ 55 T	<b>K2.3</b> ■ 44 T	<b>K3.1</b> ■ 60 T	<b>K3.2</b> ■ 46 T	<b>K3.3</b> ■ 37 T	<b>K4.1</b> ■ 55 T	<b>K4.2</b> ■ 42 T	<b>K4.3</b> ■ 31 T	<b>K4.4</b> ■ 26 T	<b>K4.5</b> ■ 22 T	<b>K5.1</b> ■ 63 T	<b>K5.2</b> ■ 47 T
<b>K5.3</b> ■ 37 T	<b>N1.1</b> ■ 150 V	<b>N1.2</b> ■ 113 V	<b>N1.3</b> ■ 75 V	<b>N2.1</b> ■ 129 V	<b>N2.2</b> ■ 116 V	<b>N2.3</b> ■ 84 V	<b>N3.1</b> ■ 317 V	<b>N3.2</b> ■ 190 V	<b>N4.1</b> ■ 60 U	<b>N4.2</b> ■ 100 U	<b>H1.1</b> ■ 34 S	<b>H2.1</b> ■ 20 S	<b>H3.1</b> ■ 22 S

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R0031.0	–	1.00	0.0394	12.0	34.0	1.00
R003N60	N60	1.02	0.0400	12.0	34.0	1.02
R0031.1	–	1.10	0.0433	14.0	36.0	1.10
R003N56	N56	1.18	0.0465	16.0	38.0	1.18
R0033/64	3/64	1.19	0.0469	16.0	38.0	1.19
R0031.2	–	1.20	0.0472	16.0	38.0	1.20
R0031.3	–	1.30	0.0512	16.0	38.0	1.30
R003N54	N54	1.40	0.0550	18.0	40.0	1.40
R0031.4	–	1.40	0.0551	18.0	40.0	1.40
R0031.5	–	1.50	0.0591	18.0	40.0	1.50
R003N53	N53	1.51	0.0595	20.0	43.0	1.51
R0031/16	1/16	1.59	0.0625	20.0	43.0	1.59
R0031.6	–	1.60	0.0630	20.0	43.0	1.60
R003N52	N52	1.61	0.0635	20.0	43.0	1.61
R0031.7	–	1.70	0.0669	20.0	43.0	1.70
R003N51	N51	1.70	0.0670	22.0	46.0	1.70
R003N50	N50	1.78	0.0700	22.0	46.0	1.78
R0031.8	–	1.80	0.0709	22.0	46.0	1.80
R0031.9	–	1.90	0.0748	22.0	46.0	1.90
R003N48	N48	1.93	0.0760	24.0	49.0	1.93
R0035/64	5/64	1.98	0.0781	24.0	49.0	1.98
R003N47	N47	1.99	0.0785	24.0	49.0	1.99
R0032.0	–	2.00	0.0787	24.0	49.0	2.00
R003N46	N46	2.06	0.0810	24.0	49.0	2.06
R0032.1	–	2.10	0.0827	24.0	49.0	2.10
R003N44	N44	2.18	0.0860	27.0	53.0	2.18
R0032.2	–	2.20	0.0866	27.0	53.0	2.20
R003N43	N43	2.26	0.0890	27.0	53.0	2.26

Product	DC (inch)	DC (mm)	DC (inch)	LCF (mm)	OAL (mm)	DCON MS (mm)
R0032.3	–	2.30	0.0906	27.0	53.0	2.30
R0033/32	3/32	2.38	0.0937	30.0	57.0	2.38
R0032.4	–	2.40	0.0945	30.0	57.0	2.40
R003N41	N41	2.44	0.0960	30.0	57.0	2.44
R0032.5	–	2.50	0.0984	30.0	57.0	2.50
R003N39	N39	2.53	0.0995	30.0	57.0	2.53
R003N38	N38	2.58	0.1015	30.0	57.0	2.58
R0032.6	–	2.60	0.1024	30.0	57.0	2.60
R003N37	N37	2.64	0.1040	30.0	57.0	2.64
R0032.7	–	2.70	0.1063	33.0	61.0	2.70
R003N36	N36	2.71	0.1065	33.0	61.0	2.71
R0037/64	7/64	2.78	0.1094	33.0	61.0	2.78
R0032.8	–	2.80	0.1102	33.0	61.0	2.80
R003N33	N33	2.87	0.1130	33.0	61.0	2.87
R0032.9	–	2.90	0.1142	33.0	61.0	2.90
R003N32	N32	2.95	0.1160	33.0	61.0	2.95
R0033.0	–	3.00	0.1181	33.0	61.0	3.00
R003N31	N31	3.05	0.1200	36.0	65.0	3.05
R0033.1	–	3.10	0.1220	36.0	65.0	3.10
R0031/8	1/8	3.17	0.1250	36.0	65.0	3.17
R0033.2	–	3.20	0.1260	36.0	65.0	3.20
R0033.3	–	3.30	0.1299	36.0	65.0	3.30
R0033.4	–	3.40	0.1339	39.0	70.0	3.40
R003N29	N29	3.45	0.1360	39.0	70.0	3.45
R0033.5	–	3.50	0.1378	39.0	70.0	3.50
R003N28	N28	3.57	0.1405	39.0	70.0	3.57
R0039/64	9/64	3.57	0.1406	39.0	70.0	3.57
R0033.6	–	3.60	0.1417	39.0	70.0	3.60

Product	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
R0033.7	–	3.70	0.1457	39.0	70.0	3.70
R003N26	N26	3.73	0.1470	39.0	70.0	3.73
R003N25	N25	3.80	0.1495	43.0	75.0	3.80
R0033.8	–	3.80	0.1496	43.0	75.0	3.80
R0033.9	–	3.90	0.1535	43.0	75.0	3.90
R0035/32	5/32	3.97	0.1563	43.0	75.0	3.97
R0034.0	–	4.00	0.1575	43.0	75.0	4.00
R003N21	N21	4.04	0.1590	43.0	75.0	4.04
R003N20	N20	4.09	0.1610	43.0	75.0	4.09
R0034.1	–	4.10	0.1614	43.0	75.0	4.10
R0034.2	–	4.20	0.1654	43.0	75.0	4.20
R003N19	N19	4.22	0.1660	43.0	75.0	4.22
R0034.3	–	4.30	0.1693	47.0	80.0	4.30
R00311/64	11/64	4.37	0.1719	47.0	80.0	4.37
R003N17	N17	4.39	0.1730	47.0	80.0	4.39
R0034.4	–	4.40	0.1732	47.0	80.0	4.40
R0034.5	–	4.50	0.1772	47.0	80.0	4.50
R003N15	N15	4.57	0.1800	47.0	80.0	4.57
R0034.6	–	4.60	0.1811	47.0	80.0	4.60
R0034.7	–	4.70	0.1850	47.0	80.0	4.70
R0033/16	3/16	4.76	0.1875	52.0	86.0	4.76
R003N12	N12	4.80	0.1890	52.0	86.0	4.80
R0034.8	–	4.80	0.1890	52.0	86.0	4.80
R003N11	N11	4.85	0.1910	52.0	86.0	4.85
R0034.9	–	4.90	0.1929	52.0	86.0	4.90
R003N10	N10	4.92	0.1935	52.0	86.0	4.92
R0035.0	–	5.00	0.1969	52.0	86.0	5.00
R0035.1	–	5.10	0.2008	52.0	86.0	5.10
R003N7	N7	5.11	0.2010	52.0	86.0	5.11
R00313/64	13/64	5.16	0.2031	52.0	86.0	5.16
R0035.2	–	5.20	0.2047	52.0	86.0	5.20
R0035.3	–	5.30	0.2087	52.0	86.0	5.30
R0035.4	–	5.40	0.2126	57.0	93.0	5.40
R003N3	N3	5.41	0.2130	57.0	93.0	5.41
R0035.5	–	5.50	0.2165	57.0	93.0	5.50
R0037/32	7/32	5.56	0.2187	57.0	93.0	5.56
R0035.6	–	5.60	0.2205	57.0	93.0	5.60
R003N2	N2	5.61	0.2210	57.0	93.0	5.61
R0035.7	–	5.70	0.2244	57.0	93.0	5.70
R0035.8	–	5.80	0.2283	57.0	93.0	5.80
R0035.9	–	5.90	0.2323	57.0	93.0	5.90
R00315/64	15/64	5.95	0.2344	57.0	93.0	5.95
R0036.0	–	6.00	0.2362	57.0	93.0	6.00
R0036.1	–	6.10	0.2402	63.0	101.0	6.10
R003C	C	6.15	0.2420	63.0	101.0	6.15
R0036.2	–	6.20	0.2441	63.0	101.0	6.20
R0036.3	–	6.30	0.2480	63.0	101.0	6.30
R0031/4	1/4	6.35	0.2500	63.0	101.0	6.35
R0036.4	–	6.40	0.2520	63.0	101.0	6.40
R0036.5	–	6.50	0.2559	63.0	101.0	6.50
R003F	F	6.53	0.2570	63.0	101.0	6.53
R0036.6	–	6.60	0.2598	63.0	101.0	6.60
R0036.7	–	6.70	0.2638	63.0	101.0	6.70
R00317/64	17/64	6.75	0.2656	69.0	109.0	6.75
R0036.8	–	6.80	0.2677	69.0	109.0	6.80
R0036.9	–	6.90	0.2717	69.0	109.0	6.90

Product	DC	DC	DC	LCF	OAL	DCON MS
	(inch)	(mm)	(inch)	(mm)	(mm)	(mm)
R003I	I	6.91	0.2720	69.0	109.0	6.91
R0037.0	–	7.00	0.2756	69.0	109.0	7.00
R0037.1	–	7.10	0.2795	69.0	109.0	7.10
R0039/32	9/32	7.14	0.2813	69.0	109.0	7.14
R0037.2	–	7.20	0.2835	69.0	109.0	7.20
R0037.3	–	7.30	0.2874	69.0	109.0	7.30
R0037.4	–	7.40	0.2913	69.0	109.0	7.40
R0037.5	–	7.50	0.2953	69.0	109.0	7.50
R00319/64	19/64	7.54	0.2969	75.0	117.0	7.54
R0037.6	–	7.60	0.2992	75.0	117.0	7.60
R0037.7	–	7.70	0.3031	75.0	117.0	7.70
R0037.8	–	7.80	0.3071	75.0	117.0	7.80
R0037.9	–	7.90	0.3110	75.0	117.0	7.90
R0035/16	5/16	7.94	0.3125	75.0	117.0	7.94
R0038.0	–	8.00	0.3150	75.0	117.0	8.00
R0038.1	–	8.10	0.3189	75.0	117.0	8.10
R0038.2	–	8.20	0.3228	75.0	117.0	8.20
R0038.3	–	8.30	0.3268	75.0	117.0	8.30
R00321/64	21/64	8.33	0.3281	75.0	117.0	8.33
R0038.4	–	8.40	0.3307	75.0	117.0	8.40
R003Q	Q	8.43	0.3320	75.0	117.0	8.43
R0038.5	–	8.50	0.3346	75.0	117.0	8.50
R0038.6	–	8.60	0.3386	81.0	125.0	8.60
R003R	R	8.61	0.3390	81.0	125.0	8.61
R0038.7	–	8.70	0.3425	81.0	125.0	8.70
R00311/32	11/32	8.73	0.3437	81.0	125.0	8.73
R0038.8	–	8.80	0.3465	81.0	125.0	8.80
R0038.9	–	8.90	0.3504	81.0	125.0	8.90
R0039.0	–	9.00	0.3543	81.0	125.0	9.00
R0039.1	–	9.10	0.3583	81.0	125.0	9.10
R00323/64	23/64	9.13	0.3594	81.0	125.0	9.13
R0039.2	–	9.20	0.3622	81.0	125.0	9.20
R0039.3	–	9.30	0.3661	81.0	125.0	9.30
R003U	U	9.35	0.3680	81.0	125.0	9.35
R0039.4	–	9.40	0.3701	81.0	125.0	9.40
R0039.5	–	9.50	0.3740	81.0	125.0	9.50
R0033/8	3/8	9.53	0.3750	87.0	133.0	9.53
R0039.6	–	9.60	0.3780	87.0	133.0	9.60
R0039.7	–	9.70	0.3819	87.0	133.0	9.70
R0039.8	–	9.80	0.3858	87.0	133.0	9.80
R003W	W	9.80	0.3860	87.0	133.0	9.80
R0039.9	–	9.90	0.3898	87.0	133.0	9.90
R00310.0	–	10.00	0.3937	87.0	133.0	10.00
R00310.2	–	10.20	0.4016	87.0	133.0	10.20
R00313/32	13/32	10.32	0.4063	87.0	133.0	10.32
R00310.5	–	10.50	0.4134	87.0	133.0	10.50
R00327/64	27/64	10.72	0.4219	94.0	142.0	10.72
R00311.0	–	11.00	0.4331	94.0	142.0	11.00
R0037/16	7/16	11.11	0.4375	94.0	142.0	11.11
R00311.5	–	11.50	0.4528	94.0	142.0	11.50
R00329/64	29/64	11.51	0.4531	94.0	142.0	11.51
R00315/32	15/32	11.91	0.4687	101.0	151.0	11.91
R00312.0	–	12.00	0.4724	101.0	151.0	12.00
R0031/2	1/2	12.70	0.5000	101.0	151.0	12.70
R00313.0	–	13.00	0.5118	101.0	151.0	13.00
R00314.0	–	14.00	0.5512	108.0	160.0	14.00